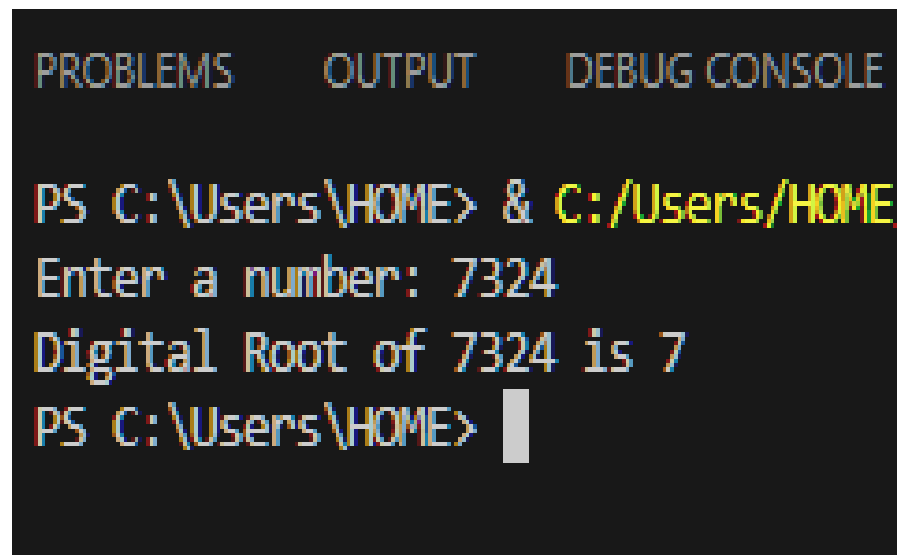


```
def DigitalRoot(number):  
    while(number % 10 != number):  
        digits = [int(digit) for digit in str(number)]  
        number = 0  
        for digit in digits:  
            number += digit  
  
    return number  
  
number = str(input("Enter a number: "))  
digitalroot = DigitalRoot(number)  
print(f"Digital Root of {number} is {digitalroot}")
```

Output:



```
PROBLEMS    OUTPUT    DEBUG CONSOLE  
  
PS C:\Users\HOME> & C:/Users/HOME  
Enter a number: 7324  
Digital Root of 7324 is 7  
PS C:\Users\HOME> |
```

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
PS C:\Users\HOME> & C:/Users/HOME/AppData/Local/Programs/Microsoft VS Code/bin/code .
Enter how many numbers you want to check: 3
Enter testcase 1: 4
Enter testcase 2: 6
Enter testcase 3: 8
['IsNotFibo', 'IsNotFibo', 'IsFibo']
PS C:\Users\HOME>
```

```
output = []

n = int(input("Enter number of testcases you want to enter: "))

for i in range(1, n+1):
    testcase = int(input(f"Enter the number of cycles for testcase {i}: "))
    height = 1
    for cycle in range(1, testcase+1):
        if cycle % 2 != 0:
            height *= 2
        else:
            height += 1
    output.append(height)

print(output)
```

Output:

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORT

PS C:\Users\HOME> & C:/Users/HOME/AppData/Local/Programs/Python/Python311/Python.exe
Enter number of testcases you want to enter: 2
Enter the number of cycles for testcase 1: 3
Enter the number of cycles for testcase 2: 4
[6, 7]
PS C:\Users\HOME> █
```